
RAMPAGETM

**HIGH PERFORMANCE
SUBWOOFERS
MODELS AVW100 and AVW120**

OWNER'S MANUAL



Congratulations on your purchase of the **Rampage** High Performance Subwoofer. The **Rampage** Subwoofers are designed to provide you with high quality Bass reproduction required to make your car audio system perform to its full potential.

RAMPAGE Subwoofer Features

- Single 4-Ohm voice coil for maximum flexibility and performance
- Double stacked magnet
- Chrome plated stamped steel basket
- 2-Inch Hi-Temp Kapton voice coil structure

SUBWOOFER PARAMETERS

	AVW100	AVW120
Nominal Power Rating	200 Wrms	250 Wrms
Peak Power Rating	400 W	500 W
Double Stacked Magnet	40 Oz	50 Oz
Frequency Response	40 Hz-1kHz	40 Hz-1kHz
Resonant Frequency	55 Hz ± 20%	55 Hz ± 20%
Woofer Size	10"	12"
Nominal Impedance	4 Ohms	4 Ohms
Mounting Depth	5.25"	6.0"

WARNING: High-powered car audio systems may produce sound pressure levels that exceed the threshold at which hearing loss may result. They may also impair a driver's ability to hear traffic sounds or emergency vehicles. Use common sense and practice safe listening habits when listening to your audio system.

INSTALLATION RECOMMENDATIONS

To realize the utmost in sound reproduction from your subwoofer(s), follow these installation recommendations:

- Use a quality large gauge wire to connect your subwoofer to the amplifier

- Use a subwoofer crossover to remove unwanted higher frequencies

- Position the enclosure in the rear of the vehicle with the subwoofer facing rearward to improve bass response and avoid cancellation of audio frequencies

ENCLOSURE CONSTRUCTION RECOMMENDATIONS

To enhance subwoofer performance, the following general recommendations should be addressed when constructing the speaker enclosure:

- Use 3/4" MDF for your construction material

- Glue all joint seams

- Screw or nail all joints tight

- Brace all walls

DESIGNING AND BUILDING YOUR SPEAKER ENCLOSURE

The following parameters are offered to assist you in designing your own enclosure. There are many computer software programs available on the market that, along with this information, will allow you to construct the type of enclosure that best suits your needs.

To obtain the best possible results, we suggest you use our recommended enclosure designs and have an automotive sound professional build your enclosure.

Parameters	AVW100	AVW120
Fo (Hz)	29.33	26.98
Revc (Ohms)	3.2	3.2
Levc at 1kHz (mH)	2.07	2.89
Qms	5.28	4.73
Qes	0.39	0.35
Qts	0.36	0.33
Vas (Ltrs)	72.59	117.72
Spl @ 1W/1M (dB)	88.58	90.07
X-Max Linear pk-pk (mm)	12	14

Recommended Enclosure Volumes

	AVW100	AVW120
SEALED		
Minimum sealed (Cu. Ft)	0.5	0.75
Maximum sealed (Cu. Ft)	1.0	1.5
PORTED		
Vented (Cu. Ft)	1.5	1.75
Vented to (Hz)	36	36
Port Diameter (")	3	4
Port Length (")	8	12
Number of Ports	1	1
SQUARE PORT INFO		
Port Area (Sq/In)	7	12
Port Length (")	8	12